

AMENDMENTS TO THE SPECIFICATION:

Kindly cancel the first occurrence of page 1 in its entirety.

Kindly replace the paragraph on page 5, lines 4-13 with the following:

In an embodiment of the present invention, a closed loop transmission antenna diversity method employing a selective combining method includes comprises the steps of (a) measuring channel information from signals received through transmitted from a plurality of antennas used in a base station and outputting a channel information matrix; (b) transforming the channel information matrix according to a transform matrix composed of a complex basis vector set; (c) calculating reception power with respect to the plurality of antennas based on the transformed channel information matrix; (d) obtaining transmitting antenna selection information based on the calculated reception power; and (e) transmitting the antenna selection information to the base station as feedback information for controlling transmission antenna diversity.

Kindly replace the paragraph on page 6, lines 10-20 with the following:

In still another embodiment of the present invention, a channel information measuring unit in a receiving mobile station apparatus measures signals received transmitted from a plurality of antennas in a base station and creates a channel information matrix which is processed by a basis vector transformer to transform the channel information matrix according to a transform matrix composed of a complex basis vector set, after which an optimum weight detector calculates reception power with respect to the plurality of antennas based on the transformed channel information matrix, after which a feedback information signal generator for controlling transmission antenna diversity based on the calculated reception power, and to an uplink signal processor for transmitting the feedback information to the base station in the form of a symbol configured according to a protocol suitable for feedback.

Kindly cancel page 29 in its entirety.